



## Table of Contents

### **IN PRESS**

**CJGPB 2014**

**CJGPB 2013**

**CJGPB 2012**

**CJGPB 2011**

**CJGPB 2010**

**CJGPB 2009**

**CJGPB 2008**

**CJGPB 2007**

**CJGPB 2006**

**CJGPB 2005**

**CJGPB 2004**

**CJGPB 2003**

**CJGPB 2002**

**CJGPB**

**Home**

---

## **Editorial Board**

### **For Authors**

- **Authors  
Declaration**
- **Instruction  
to Authors**
- **Guide for  
Authors**
- **Copyright  
Statement**
- **Submission**

### **For Reviewers**

- **Guide for  
Reviewers**
- **Reviewers  
Login**

---

## **Subscription**

# **Czech J. Genet. Plant Breed.**

**Oukropec I.:**

**Evaluation of the  
*Prunus* interspecific  
progenies for  
resistance to *Plum pox  
virus***

Czech J. Genet. Plant Breed., 49 (2013):  
65-69

Sharka disease caused by the infection with the *Plum pox virus* (PPV) in stone fruit trees is worldwide the most devastating for stone fruit production. Until now, good sources of resistance to PPV within the peach group have not been available. There are no commercial cultivars of peach that are resistant to PPV. Other *Prunus* species are known to show varying levels of resistance. Interspecific hybrids GF 677 (*Prunus amygdalus* × *P. persica*) and Cadaman (*P. davidiana* × *P. persica*) were revealed to be resistant to PPV. The resistance to a Dideron isolate of the descendants of Cresthaven × GF 677

and Cresthaven × Cadaman and their progenitors was evaluated after inoculation by chip-budding in a sealed greenhouse. Results demonstrate a certain level of resistance in both progenies of interspecific hybrids and indicate a potential for PPV resistance transfer to commercial peach cultivars but it will be necessary to perform backcrosses with peach cultivars of agricultural interest in order to return pomological and agronomic traits. For the definitive confirmation of resistance/susceptibility it will be necessary to wait until the adult stage of hybrids.

### **Keywords:**

*Prunus amygdalus*; *Prunus davidiana*; *Prunus persica*; PPV; sharka disease; transmissibility

[ [fulltext](#) ]

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